

SONY®

TFT LCD Color Computer Display

***SDM-HS53
SDM-HS73
SDM-HS93***

Owner's Record

The model and serial numbers are located at the rear of the unit. Record these numbers in the spaces provided below. Refer to them whenever you call upon your dealer regarding this product.

Model No. _____ Serial No. _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Dangerously high voltages are present inside the unit. Do not open the cabinet. Refer servicing to qualified personnel only.

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

IMPORTANTE

Para prevenir cualquier mal funcionamiento y evitar daños, por favor, lea detalladamente este manual de instrucciones antes de conectar y operar este equipo.

**If you have any questions about this product, you may call;
Sony Customer Information Services Center
1-800-222-7669 or <http://www.sony.com/>**

Declaration of Conformity

Trade Name: SONY
Model: SDM-HS53/HS73/HS93
Responsible Party: Sony Electronics Inc.
Address: 16450 W. Bernardo Dr,
San Diego, CA 92127 U.S.A.
Telephone Number: 858-942-2230

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTICE

This notice is applicable for USA/Canada only.
If shipped to USA/Canada, install only a UL LISTED/CSA LABELLED power supply cord meeting the following specifications:

SPECIFICATIONS

Plug Type	Nema-Plug 5-15p
Cord	Type SVT or SJT, minimum 3 × 18 AWG
Length	Maximum 15 feet
Rating	Minimum 7 A, 125 V

NOTICE

Cette notice s'applique aux Etats-Unis et au Canada uniquement.

Si cet appareil est exporté aux Etats-Unis ou au Canada, utiliser le cordon d'alimentation portant la mention UL LISTED/CSA LABELLED et remplissant les conditions suivantes:

SPECIFICATIONS

Type de fiche	Fiche Nema 5-15 broches
Cordon	Type SVT ou SJT, minimum 3 × 18 AWG
Longueur	Maximum 15 pieds
Tension	Minimum 7 A, 125 V



As an ENERGY STAR Partner, Sony Corporation has determined that this product meets the ENERGY STAR guidelines for energy efficiency.



BZ03

Table of Contents

Precautions	4
Identifying parts and controls	5
Setup	7
Step 1: Connect the display to your computer	7
Step 2: Connect the power cord	8
Step 3: Secure the cords and close the back cover	8
Step 4: Turn on the monitor and computer	9
Adjusting the tilt	9
Customizing Your Monitor	10
Adjusting to the desired brightness	10
Navigating the menu	10
Adjusting the backlight (BACKLIGHT)	11
Adjusting the contrast (CONTRAST)	11
Adjusting the black level of an image (BRIGHTNESS)	11
Adjusting the picture's sharpness and centering (SCREEN)	12
Adjusting the color temperature (COLOR)	13
Changing the gamma setting (GAMMA)	14
Changing the menu's position (MENU POSITION)	14
Selecting the on-screen menu language (LANGUAGE)	14
Additional settings	14
Technical Features	15
Power saving function	15
Reducing the power consumption (Eco mode)	15
Automatic picture quality adjustment function	15
Troubleshooting	16
On-screen messages	16
Trouble symptoms and remedies	17
Self-diagnosis function	19
For details on the specifications of the SDM-HS53/HS73/HS93, refer to the supplementary document "Quick Setup Guide."	

- Macintosh is a trademark licensed to Apple Computer, Inc., registered in the U.S.A. and other countries.
- Windows® and MS-DOS are registered trademarks of Microsoft Corporation in the United States and other countries.
- IBM PC/AT and VGA are registered trademarks of IBM Corporation of the U.S.A.
- VESA and DDC™ are trademarks of the Video Electronics Standards Association.
- ENERGY STAR is a U.S. registered mark.
- Adobe and Acrobat are trademarks of Adobe Systems Incorporated.
- All other product names mentioned herein may be the trademarks or registered trademarks of their respective companies.
- Furthermore, "™" and "®" are not mentioned in each case in this manual.

GB

Precautions

Warning on power connections

- Use the supplied power cord. If you use a different power cord, be sure that it is compatible with your local power supply.

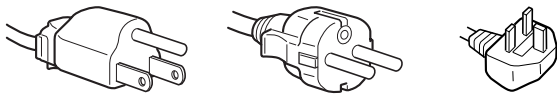
For the customers in the U.S.A.

If you do not use the appropriate cord, this monitor will not conform to mandatory FCC standards.

For the customers in the UK

If you use the monitor in the UK, be sure to use the appropriate UK power cord.

Example of plug types



for 100 to 120 V AC for 200 to 240 V AC for 240 V AC only

The equipment should be installed near an easily accessible outlet.

Installation

Do not install or leave the monitor:

- In places subject to extreme temperatures, for example near a radiator, heating vent, or in direct sunlight. Subjecting the monitor to extreme temperatures, such as in an automobile parked in direct sunlight or near a heating vent, could cause deformations of the casing or malfunctions.
- In places subject to mechanical vibration or shock.
- Near any equipment that generates a strong magnetic field, such as a TV or various other household appliances.
- In places subject to inordinate amounts of dust, dirt, or sand, for example near an open window or an outdoor exit. If setting up temporarily in an outdoor environment, be sure to take adequate precautions against airborne dust and dirt. Otherwise irreparable malfunctions could occur.

Handling the LCD screen

- Do not leave the LCD screen facing the sun as it can damage the LCD screen. Take care when you place the monitor by a window.
- Do not push on or scratch the LCD screen. Do not place a heavy object on the LCD screen. This may cause the screen to lose uniformity or cause LCD panel malfunctions.
- If the monitor is used in a cold place, a residual image may appear on the screen. This is not a malfunction. The screen returns to normal as the temperature rises to a normal operating level.
- If a still picture is displayed for a long time, a residual image may appear for a while. The residual image will eventually disappear.
- The LCD panel becomes warm during operation. This is not a malfunction.

Note on the LCD (Liquid Crystal Display)

Please note that the LCD screen is made with high-precision technology. However, black points or bright points of light (red, blue, or green) may appear constantly on the LCD screen, and irregular colored stripes or brightness may appear on the LCD screen. This is not malfunction.

(Effective dots: more than 99.99%)

Maintenance

- Be sure to unplug the power cord from the power outlet before cleaning your monitor.
- Clean the LCD screen with a soft cloth. If you use a glass cleaning liquid, do not use any type of cleaner containing an anti-static solution or similar additive as this may scratch the LCD screen's coating.
- Clean the cabinet, panel, and controls with a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzene.
- Do not rub, touch, or tap the surface of the screen with sharp or abrasive items such as a ballpoint pen or screwdriver. This type of contact may result in a scratched picture tube.
- Note that material deterioration or LCD screen coating degradation may occur if the monitor is exposed to volatile solvents such as insecticide, or if prolonged contact is maintained with rubber or vinyl materials.

Transportation

- Disconnect all cables from the monitor and grasp the support and base sections of the display stand firmly with both hands when transporting. If you drop the monitor, you may be injured or the monitor may be damaged.
- When you transport this monitor for repair or shipment, use the original carton and packing materials.

Disposal of the monitor

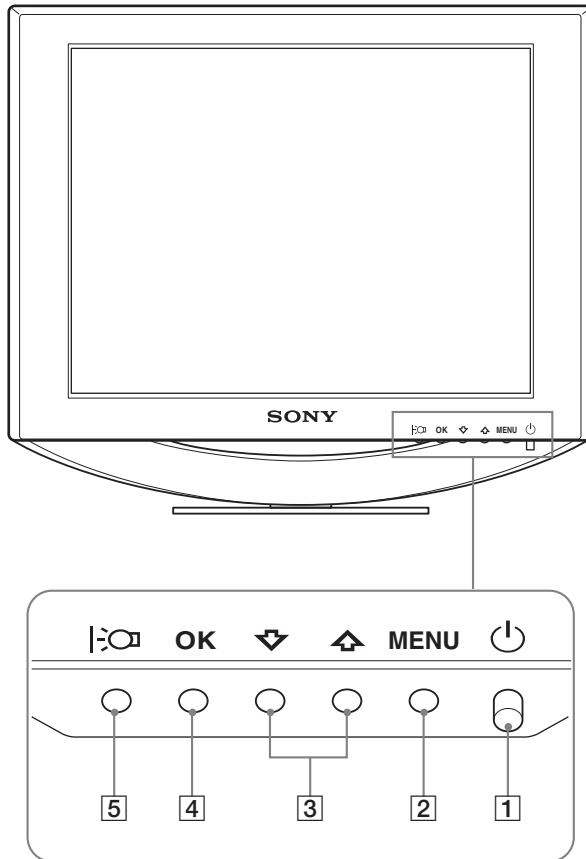
- **Do not dispose of this monitor with general household waste.**
- **The fluorescent tube used in this monitor contains mercury. Disposal of this monitor must be carried out in accordance to the regulations of your local sanitation authority.**

Identifying parts and controls

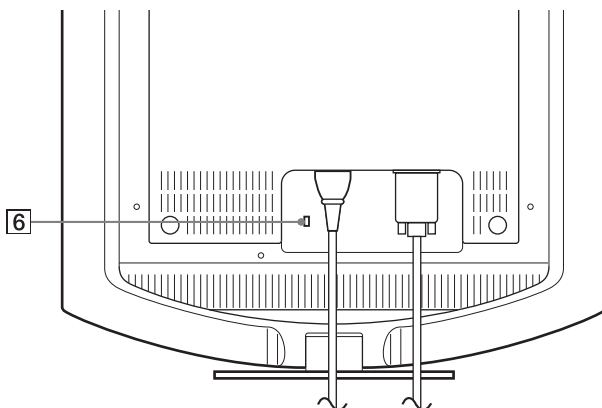
See the pages in parentheses for further details.

The ⏻ (power) switch and the control buttons are on the lower right part of the front of the monitor.

Front of the LCD display



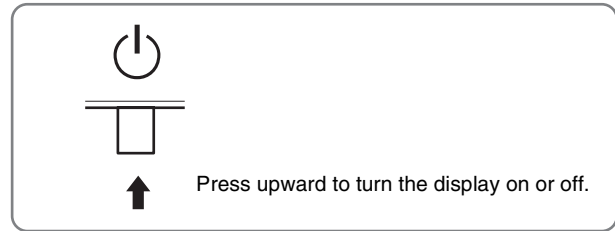
Rear of the display stand



1 ⏻ (Power) switch and indicator (pages 9, 15, 19)

To turn the display on or off, press the ⏻ (power) switch upward.

The power indicator lights up in green when the display is turned on, and lights up in orange when the monitor is in power saving mode.



2 MENU button (pages 10, 11)

This button displays or closes the main menu.

3 ⬆/⬆ buttons (page 11)

These buttons function as the ⬆/⬆ buttons when selecting the menu items and making adjustments.

4 OK button (page 11)

This button selects the item or executes the settings in the menu.

5 ⬆ button (page 10)

This button is used to change the brightness of the screen.

6 Security Lock Hole

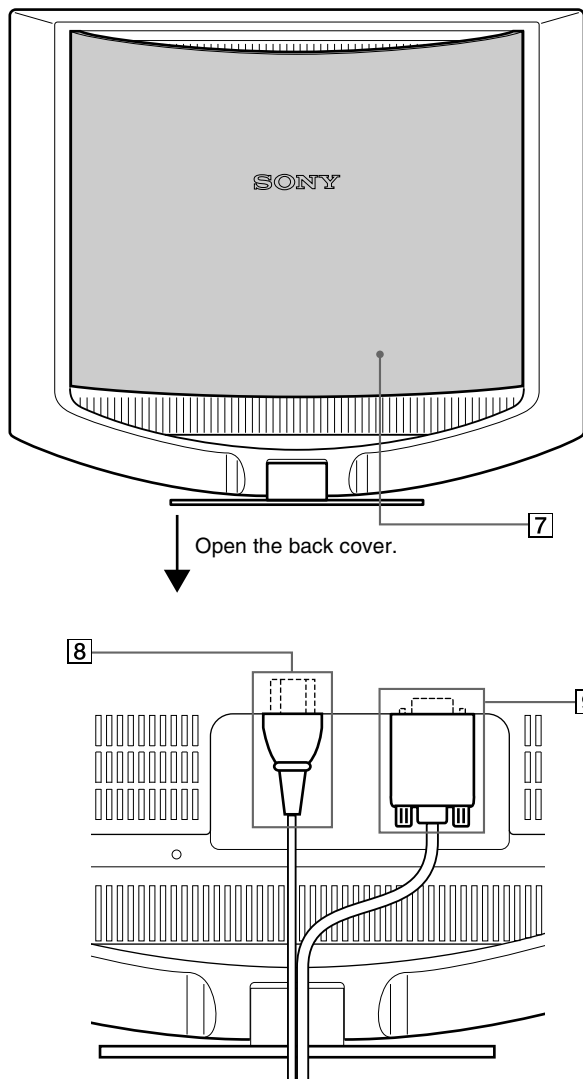
The security lock hole should be applied with the Kensington Micro Saver Security System.

Micro Saver Security System is a trademark of Kensington.

GB

(continued)

Rear of the LCD display



The illustration of the back of the monitor show here is the SDM-HS53.

7 Back cover (page 8)

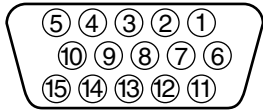
Open this cover when you connect/disconnect cables or cords.

8 AC IN connector (page 8)

Connect the power cord (supplied).

9 HD15 (RGB) input connector (page 7)

This connector inputs RGB video signals (0.7 Vp-p, positive) and SYNC signals.



Pin No.	Signal
1	Red
2	Green
3	Blue
4	ID (Ground)
5	DDC Ground*
6	Red Ground
7	Green Ground
8	Blue Ground
9	DDC + 5V*
10	Ground
11	ID (Ground)
12	Bi-Directional Data (SDA)*
13	H. Sync
14	V. Sync
15	Data Clock (SCL)*

* DDC (Display Data Channel) is a standard of VESA.

Setup

Before using your monitor, check that the following items are included in your carton:

- LCD display
- Power cord
- HD15-HD15 video signal cable
- Cord strap
- Utility/Instruction Manual CD-ROM (utility software for Windows/Macintosh, Operating Instructions)
- Warranty card
- Quick Setup Guide

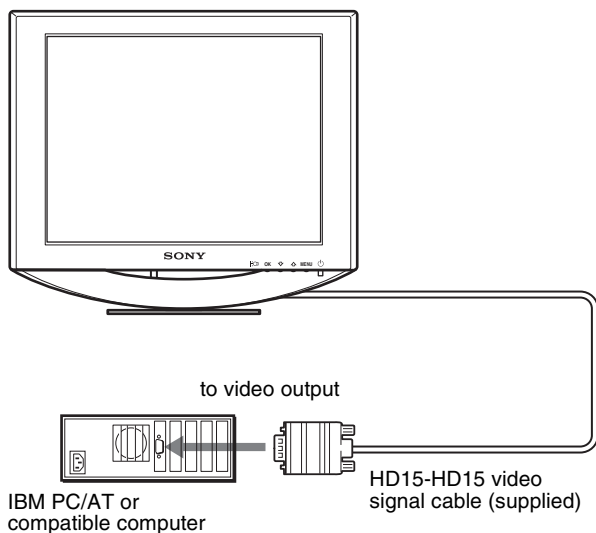
Step 1: Connect the display to your computer

Turn off the monitor and computer before connecting.

Notes

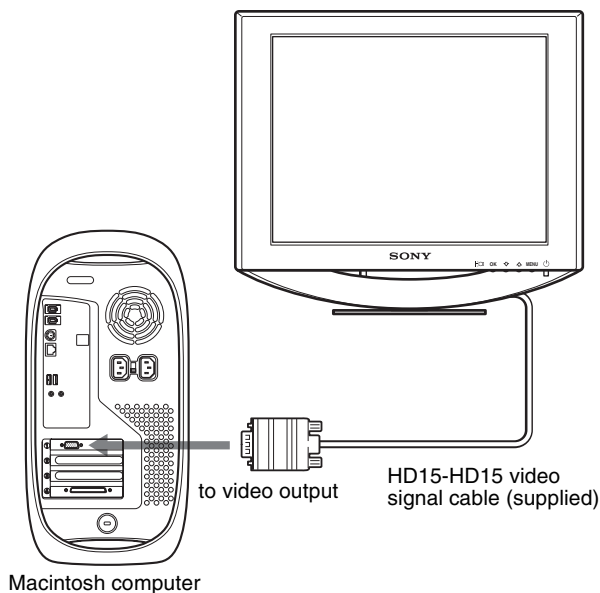
- Do not touch the pins of the video signal cable connector as this might bend the pins.
- Check the alignment of the HD15 connector to prevent bending the pins of the video signal cable connector.

■ Connecting to an IBM PC/AT or compatible computer



■ Connecting to a Macintosh computer

When connecting this monitor to a Macintosh computer, use the Macintosh adapter (not supplied) if necessary. Connect the Macintosh adapter to the computer before connecting the cable.

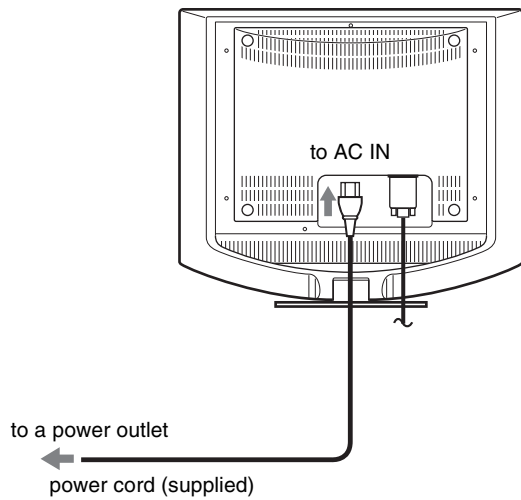


GB

(continued)

Step 2: Connect the power cord

With the monitor and computer switched off, first connect the power cord to the monitor, then connect it to a power outlet.

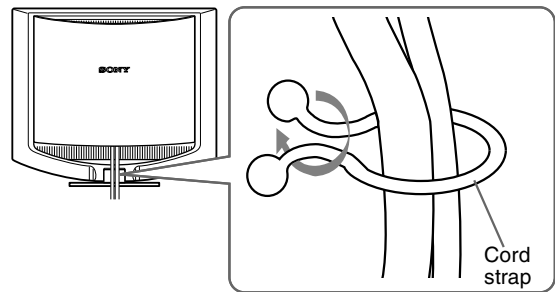


The illustration of the back of the monitor show here is that of the SDM-HS53.
The same applies for the SDM-HS73/HS93 model.

Step 3: Secure the cords and close the back cover

1 Bundle the cables and cords.

Using the supplied cord strap, bundle the cables and cords.




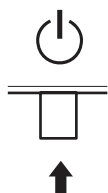
The illustration of the back of the monitor show here is that of the SDM-HS53.
The same applies for the SDM-HS73/HS93 model.

2 Close the back cover.

Step 4: Turn on the monitor and computer

1 Press the (power) switch upward.

The  (power) indicator of the monitor lights up in green.



2 Turn on the computer.

The installation of your monitor is complete. If necessary, use the monitor's controls to adjust the picture.

If no picture appears on your screen

- Check that the power cord and the video signal cable are properly connected.
- **If NO INPUT SIGNAL appears on the screen:**
The computer is in the power saving mode. Try pressing any key on the keyboard or moving the mouse.
- **If CABLE DISCONNECTED appears on the screen:**
Check that the video signal cable is properly connected.
- **If OUT OF SCAN RANGE appears on the screen:**
Reconnect the old monitor. Then adjust the computer's graphics board within the following ranges.

	SDM-HS53	SDM-HS73/HS93
Horizontal frequency	28–61 kHz	28–80 kHz
Vertical frequency	48–75 Hz	48–75 Hz
Resolution	1024 × 768 or less	1280 × 1024 or less

For more information about the on-screen messages, see “Trouble symptoms and remedies” on page 17.

No need for specific drivers

The monitor complies with the “DDC” Plug & Play standard and automatically detects all the monitor's information. No specific driver needs to be installed to the computer.

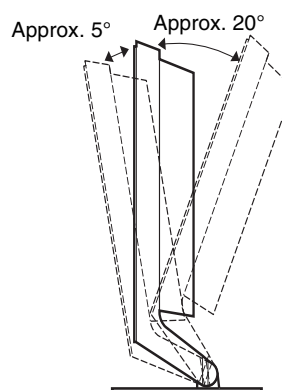
The first time you turn on your computer after connecting the monitor, the setup Wizard may appear on the screen. In this case, follow the on-screen instructions. The Plug & Play monitor is automatically selected so that you can use this monitor.

The vertical frequency turns to 60 Hz.

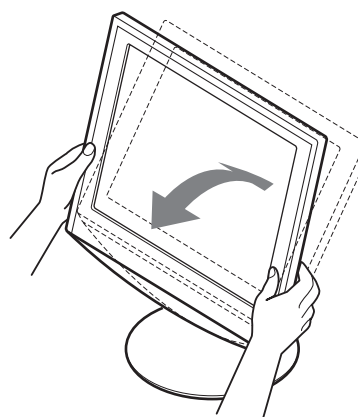
Since flickers are unobtrusive on the monitor, you can use it as it is. You do not need to set the vertical frequency to any particular high value.

Adjusting the tilt

This display can be adjusted within the angles shown below.



Grasp the lower sides of the LCD panel, then adjust screen tilt.



GB

To use the display comfortably

This display is designed so that you can set it up at a comfortable viewing angle. Adjust the viewing angle of your display according to the height of the desk and chair, and so that light is not reflected from the screen to your eyes.